

International Patent application (PCT)  
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Claims

1. System for identifying and authenticating accessories, auxiliary substances and/or operating substances for items of equipment,  
5 - the accessories or the auxiliary or operating substances or their storage containers (16) being provided with a data carrier portion (18) on which information that can be detected by the human eye and is distinctive to a human viewer is stored,  
10 - the item of equipment (10) being provided with a reading and evaluating device (20) for this information and  
- the reading and evaluating device (20) having a comparison device (43) for comparing the read information with a stored item of information as well as an enabling controller (46) for at least one functional component (48) of the item of equipment (10) in such a way that if the read information  
15 coincides with the stored information an authenticating signal or enabling signal is supplied by the enabling controller (46) to the functional component (48), which thereupon permits operation of the item of equipment (10) and if the read  
20 information does not coincide with the stored information disables operation of the item of equipment.
2. System according to Claim 1, characterized in that  
30 the information that can be detected by the human eye and is distinctive to the human viewer is formed by a trademark.
- A 3. System according to Claim 1 ~~or 2~~, characterized

- ### Claim 14

Claim I

~~code and  
nation  
carrier~~

- ### Claim 1

25 - in that the first region (24) of the data carrier  
portion (18) has a multiplicity of lines (32, 32',  
32'') of a binary pixel code, the binary pixel code  
containing the only machine-readable information, and  
- in that the second region (26) of the data carrier  
30 portion (18) has a plurality of lines of a pixel code  
which together form the information that can be  
detected by the human eye and is distinctive to the  
human viewer.

*A* 35 7. System according to ~~one of the preceding claims,~~ *Claim 1*  
characterized in that a machine-readable limit marking  
(28), which preferably comprises at least one blank  
line, is provided between the first region (24) of the

### Claim 1

data carrier portion (18) and the second region (26) of the data carrier portion (18).

*Claim 1*

- A 8. System according to ~~one of the preceding claims~~,  
5 characterized in that the reference marking (30) has a frame reaching around at least one of the two regions (24, 26) of the data carrier portion (18).

*Claim 1*

- A 9. System according to ~~one of the preceding claims~~,  
10 characterized in that the binary pixel code of a line (32, 32', 32'') has in each case a row of adjacently lying bit markings (34, 34', 34'') of the binary representation of an item of information.

- 15 10. System according to Claim 9, characterized in that binary bit markings (36, 36', 36'') for a check digit for the binary representation of the information are additionally provided in each line (32, 32', 32'').

- 20 11. Method for detecting and decoding information provided on an optically readable data carrier portion (18) of a system according to ~~one of claims 1 to 10~~,  
A the information being detectable by the human eye and distinctive to a human viewer, comprising the steps:

- 25 - registering the optical information present on the data carrier portion;  
- reading out the optical information present on the data carrier portion;  
- comparing the read-out information with a stored  
30 information sample and  
- generating an authenticating signal if the read-out information of the second region (26) has been detected as coinciding with the stored information sample.

35

- A 12. Method for detecting and decoding information provided on an optically readable data carrier portion (18) of a system according to ~~one of claims 1 to 10~~,  
*Claim 1* at least part of the information being detectable by the

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human eye and distinctive to a human viewer, comprising the steps:

- registering the optical information present on the data carrier portion (18);
- 5 - identifying the first and second regions (24, 26) of the data carrier portion (18);
- reading out and decoding the binary information contained in the first region (24);
- reading out the information contained in the second  
10 region (26);
- comparing the read-out information of the second region (26) with a stored information sample and
- generating an authenticating signal if the read-out  
15 information of the second region (26) has been detected as coinciding with the stored information sample.

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